

INTERNATIONAL SEARCH REPORT

PC1/US 03/09834

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L29/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SRISURESH P; TSIRTSIS G; AKKIRAJU P; HEFFERNAN A: "RFC 2694; DNS Extensions to Network Address Translators (DNS_ALG)" September 1999 (1999-09), INTERNET ENGINEERING TASK FORCE XP002247781 abstract Chapter 1 "Introduction" page 1 -page 2 Complete Chapter 3, "Interactions between NAT and DNS_ALG" page 5 -page 9	1-65
Y	EP 0 817 444 A (SUN MICROSYSTEMS INC) 7 January 1998 (1998-01-07) abstract; figures 2-A,3 column 1, line 1 -column 9, line 22 --- -/--	1-65

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *S* document member of the same patent family

Date of the actual completion of the international search

21 July 2003

Date of mailing of the international search report

05/08/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Raible, M

INTERNATIONAL SEARCH REPORT

PCT/US 03/09834

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SRISURESH P ET AL: "Middlebox communication architecture and framework;" INTERNET ENGINEERING TASK FORCE, XX, XX, 28 February 2002 (2002-02-28), pages 1-35, XP002211545 the whole document	1-65
A	C. HUITEMA: "MIDCOM Scenarios; <draft-ietf-midcom-scenarios-02.txt>" 17 May 2001 (2001-05-17), INTERNET ENGINEERING TASK FORCE, INTERNET XP002247782 the whole document	1-65
A	WO 99 30467 A (ELDERSON HERMAN) 17 June 1999 (1999-06-17) abstract; figure 4 page 2, line 24 -page 8, line 2	3-8, 14-19, 24,25, 30-65
A	DIAS D M ET AL: "A scalable and highly available web server" DIGEST OF PAPERS OF COMPCON (COMPUTER SOCIETY CONFERENCE) 1996 TECHNOLOGIES FOR THE INFORMATION SUPERHIGHWAY. SANTA CLARA, FEB. 25 - 28, 1996, DIGEST OF PAPERS OF THE COMPUTER SOCIETY COMPUTER CONFERENCE COMPCON, LOS ALAMITOS, IEEE COMP. SOC. PRESS, , vol. CONF. 41, 25 February 1996 (1996-02-25), pages 85-92, XP010160879 ISBN: 0-8186-7414-8 the whole document	1-65

INTERNATIONAL SEARCH REPORT

PCT/US 03/09834

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0817444	A	07-01-1998	US 6154777 A EP 0817444 A2 JP 10126445 A	28-11-2000 07-01-1998 15-05-1998
WO 9930467	A	17-06-1999	NL 1007709 C2 AU 1512199 A WO 9930467 A1	08-06-1999 28-06-1999 17-06-1999